Claims

[c1]	1.A flexible source wire for radiation treatment of diseases within a body comprising:
	a flexible, hollow, elongated housing tube having a distal end and a proximal
	end, said housing tube constructed from a material exhibiting little or no memory retention when bent;
	a flexible backbone wire having a proximal end, said proximal end of said wire being disposed in said housing tube; and
	a radiation source or sources provided within said housing tube, said
	proximal end of said flexible backbone wire being adjacent to said radiation source or sources.
[c2]	2. The flexible source wire in accordance with claim 1 further including a plug which is sealed to said proximal end of said housing tube.
[c3]	3. The flexible source wire of claim 1, wherein said radioactive source is encapsulated within a neutron permeable material.
[c4]	4. The flexible source wire of claim 1, wherein said radioactive source is included within a thin walled-capsule.
[c5]	5. The flexible source wire in accordance with claim 1, wherein said backbone wire is completely disposed in said housing tube.
[c6]	6. The flexible source wire in accordance with claim 1 wherein a portion of the inner surface of said proximal end of said housing tube exhibits a tapered funnel shape for ease of loading said radioactive source or sources within said flexible housing tube.
[c7]	7. The flexible source wire in accordance with claim 4 wherein at least one end of said capsule is rounded.
[c8]	8. The flexible source wire in accordance with claim 3 wherein at least one end of said encapsulated radioactive source or sources is rounded.
[c9]	9.The flexible source wire in accordance with claim 1 wherein said backbone

wire is affixed to the interior wall of said flexible housing tube at one or more locations.

- [c10] 10. The flexible source wire in accordance with claim 1, wherein said backbone wire includes a distal end, and wherein said distal end is disposed within said tube.
- [c11] 11.The flexible source wire in accordance with claim 1 wherein the outer surface of said housing tube is coated with a non-oxidizing agent.
- [c12] 12.The flexible source wire in accordance with claim 13 wherein said non-oxidizing agent is gold.
- [c13] 13.A flexible source wire for radiation treatment of diseases within a body comprising:
 - a flexible, hollow, elongated housing tube having a distal end and a proximal end, said housing tube constructed from a material exhibiting little or no memory retention when bent;
 - a flexible backbone wire having a proximal end, said proximal end of said wire inserted into said tube; and
 - a radiation source or sources provided within said housing tube, said proximal end of said flexible backbone wire being adjacent to said radiation source or sources.
- [c14] 14.The flexible source wire in accordance with claim 13 further including a plug, which is sealed to said proximal end of said housing tube.
- [c15] 15.The flexible source wire in accordance with claim 13 wherein a portion of the inner surface of said proximal end of said housing tube exhibits a tapered funnel shape for ease of loading said radioactive source or sources within said flexible housing tube.
- [c16] 16.The flexible source wire in accordance with claim 13 wherein at least one end of said capsule is rounded.
- [c17] 17.The flexible source wire in accordance with claim 13, wherein said

[c25]

backbone wire is affixed to the interior wall of said flexible housing tube at one or more locations. [c18]18. The flexible source wire in accordance with claim 13 wherein the outer surface of said housing tube is coated with a non-oxidizing agent. 19. The flexible source wire in accordance with claim 18 wherein said non-[c19] oxidizing agent is gold. 20. The flexible source wire of claim 13, wherein the radioactive source is [c20]encapsulated within a neutron permeable material. [c21] 21. The flexible source wire of claim 13, wherein the radioactive source is included within a thin-walled capsule. [c22] 22. The flexible source wire in accordance with claim 13, wherein said backbone wire is completely inserted in said housing tube. [c23] 23. The flexible source wire of claim 13, wherein the backbone wire includes a distal end, and wherein the backbone wire is completely inserted such that the distal end is disposed within the tube. [c24] 24.A flexible source wire for radiation treatment of diseases within a body comprising: a flexible, hollow, elongated housing tube having a distal end and a proximal end, said housing tube constructed from a material exhibiting little or no memory retention when bent; a flexible backbone wire having a proximal end, said proximal end of said wire inserted into said tube: a capsule inserted into said proximal end of said flexible elongated housing tube; a radiation source or sources inserted into said capsule; and a plug which seals said proximal end of said housing tube.

25. The flexible source wire in accordance with claim 24 wherein a portion of

the inner surface of said proximal end of said housing tube exhibits a

	within said flexible housing tube.
[c26]	26. The flexible source wire in accordance with claim 24 wherein at least one end of said capsule is rounded.
[c27]	27. The flexible source wire in accordance with claim 24 wherein said backbone wire is affixed to the interior wall of said flexible housing tube at one or more locations.
[c28]	28. The flexible source wire in accordance with claim 24 wherein the outer surface of said housing tube is coated with a non-oxidizing agent.
[c29]	29. The flexible source wire in accordance with claim 28 wherein said non-oxidizing agent is gold.
[c30]	30. The flexible source wire in accordance with claim 24, wherein said backbone wire is completely disposed in said housing tube.
[c31]	31. The flexible source wire of claim 24, wherein the backbone wire includes a distal end, and wherein the backbone wire is disposed completely within the tube such that the distal end is disposed within the tube.